

VIII.3.3-WEIGH-TS WEIGHT TIME SERIES OPERATION

Identifier: WEIGH-TS

Operation Number: 15

Parameter Array: The FORTRAN identifier used for the parameter array for this Operation is PO. The contents of the PO array are:

<u>Position</u>	<u>Contents</u>
1	Operation version number
2	Number of input time series
3	Weighting option: blank = user supplied weights 'AREA' = weights from UNIT-HG Operations
4-5	Identifier of output time series
6	Data type of output time series
7	Data time interval of output time series
8	Number of values per time interval
9	Missing allowed option: 0 = missing data not allowed 1 = missing data allowed
10	Units code

The following positions are repeated for each input time series:

11-12	Identifier of input time series
13	Data type of input time series
14	Weighting factor
15-16	Name of UNIT-HG Operation (blank if PO(3) is blank)

Subroutine Names and Functions:

<u>Subroutine</u>	<u>Function</u>
PIN15	Input cards and store values in PO array
EX15	Executes the Operation
PRP15	Prints information in PO array

<u>Subroutine</u>	<u>Function</u>
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PUC15	Punches information in PO array
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Subroutines PRP15 and PUC15 use the standard argument lists as given in Section VIII.4.3.

SUBROUTINE PIN15 (PO,LEFTP,IUSEP,P,MP)

Function: This is the input routine for Operation WEIGH-TS. This routine inputs all cards for the Operation and fills the PO array.

Argument List:

<u>Variable</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
PO	Output	R	Variable	Contains parameters
LEFTP	Input	I	1	Maximum space available for PO array
IUSEP	Output	I	1	Amount of space used by PO array
P	Input	R	MP	Entire P array
MP	Input	I	1	Dimension of P array

SUBROUTINE EX15 (PO,OUT,LOCD,D,MD)

Function: This is the execution routine for Operation WEIGH-TS.

Argument List:

<u>Variable</u>	<u>Input/ Output</u>	<u>Type</u>	<u>Dimension</u>	<u>Description</u>
PO	Input	R	Variable	Contains parameters and other information
OUT	Output	R	Variable	Output time series data
LOCD	Input	I	Variable	Starting locations of input time series in D array
D	Input	R	MD	Entire D array
MD	Input	I	1	Dimension of the D array

SUBROUTINE TAB15 (TO,LEFT,IUSET,NXT,LPO,PO,TS,MTS,LWORK,IDT)

Function: This is the Operations Table entry routine for Operation WEIGH-TS.

Argument List: The arguments for this routine are similar to the arguments for the Operations Table entry routines for other Operations. A description of the arguments is contained in Section VIII.4.2-TAB.

Operation Table Array: The contents of the TO array are:

<u>Position</u>	<u>Contents</u>
1	Operation number
2	Location in the T array of the next Operation to be executed
3	Location of the parameter array for this Operation in the P array
4	Location of the output time series in the D array
5 to 4+NTS	Location of each input time series in the D array (NTS is the number of input time series)